

(48A). When the pressing stud (48A) and the elastic washer (48B) are movably held in the stepped round hole (47) using an E-shaped clamp (49) mounted around a lower end of the stem portion of the pressing stud (48A) downward projected from a bottom of the stepped
05 round hole (47), an elasticity of the elastic washer (48B) normally pushes the pressing stud (48A) upward to firmly press against a bottom surface of the shade roller (10) nearby the slide ways (11). The upward pressing forces from the two pressing studs (48A) and the elastic washers (48B) against the bottom of the shade roller
10 (10) and the sideward pressing forces from the two retaining angles (45C) of the retaining plate (45) against the two slide ways (11) of the shade roller (10) together ensure a tight connection of the shade roller (10) to the supporting frames (40).

15 WHAT IS CLAIMED IS:

1. An awning supported on roof panel for use outdoors, comprising an automatic shade roller, a plurality of supporting frames for supporting said automatic shade roller thereon, and a plurality
20 of adjustable sucker units coupled with said supporting frames for detachably attaching to a roof panel of an automobile;

each of said adjustable sucker units including from bottom to top a sucker, a slidable plate, a round-bottomed disk-shaped
25 slide, a buffer spring, a collar, and a long bolt;

said sucker being integrally formed at a top center with a

locating base, on a top surface of which there is provided with a round, concaved shallow recess, and an integral sleeve upward projected from a top center of said locating base;

05 said slidable plate being provided at a predetermined position near a central area thereof with a round-bottomed recess portion, which has a curvature corresponding to that of said concaved shallow recess on the top of said locating base; and said slidable plate having two longitudinal sides formed into
10 two wing portions;

said disk-shaped slide being provided at a bottom with a downward convex portion, which has a curvature corresponding to that of said round-bottomed recess portion on said slidable plate;
15 and

each of said supporting frames being provided at two lateral sides with two elongated slots, integrally provided below each of said two lateral sides with a pair of vertically downward
20 extended framing walls, and integrally provided on a central top portion with a raised pad having two mortises formed at two diagonally opposite corners thereof;

whereby said sucker units, said supporting frames, and said
25 shade roller may be easily assembled to mount on the roof panel of the automobile to provide an awning for use outdoors without the need of using any tool.

2. The awning supported on roof panel for use outdoors as claimed in claim 1, wherein said pair of vertically downward extended framing walls provided below each said lateral side of said supporting frame are provided at a lower part of two inner wall surfaces with two corresponding channels, and wherein said two wing portions of said slidable plate are adapted to slidably move into and along said two channels.
3. The awning supported on roof panel for use outdoors as claimed in claim 2, wherein said supporting frame includes a separate hold-down member provided below each lateral side, said hold-down member having two ends that are cut into two right-angled guides adapted to fitly bear against two lower inner corners of said two channels, so that said hold-down member may be slid along the lower inner corners of said channels.
4. The awning supported on roof panel for use outdoors as claimed in claim 1, wherein said raised pad on the central top portion of said supporting frame has a retaining plate mounted on a top thereof.
5. The awning supported on roof panel for use outdoors as claimed in claim 4, wherein said retaining plate has an overall length larger than that of said raised pad.
6. The awning supported on roof panel for use outdoors as claimed in claim 4, wherein said retaining plate is provided at a lower

side below two diagonally opposite corners with two downward extended tenons adapted to engage with said two mortises provided at two diagonally opposite corners of said raised pad.

05 7. The awning supported on roof panel for use outdoors as claimed in claim 4, wherein said retaining plate is provided at two diagonally opposite corners of two longitudinal sides with two retaining angles.

10 8. The awning supported on roof panel for use outdoors as claimed in claim 1, wherein said supporting frame is provided at two opposite sides of said raised pad with two stepped round holes for each receiving an elastic washer and a pressing stud therein, and said elastic washer being movably mounted around a
15 stem portion of said pressing stud.

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